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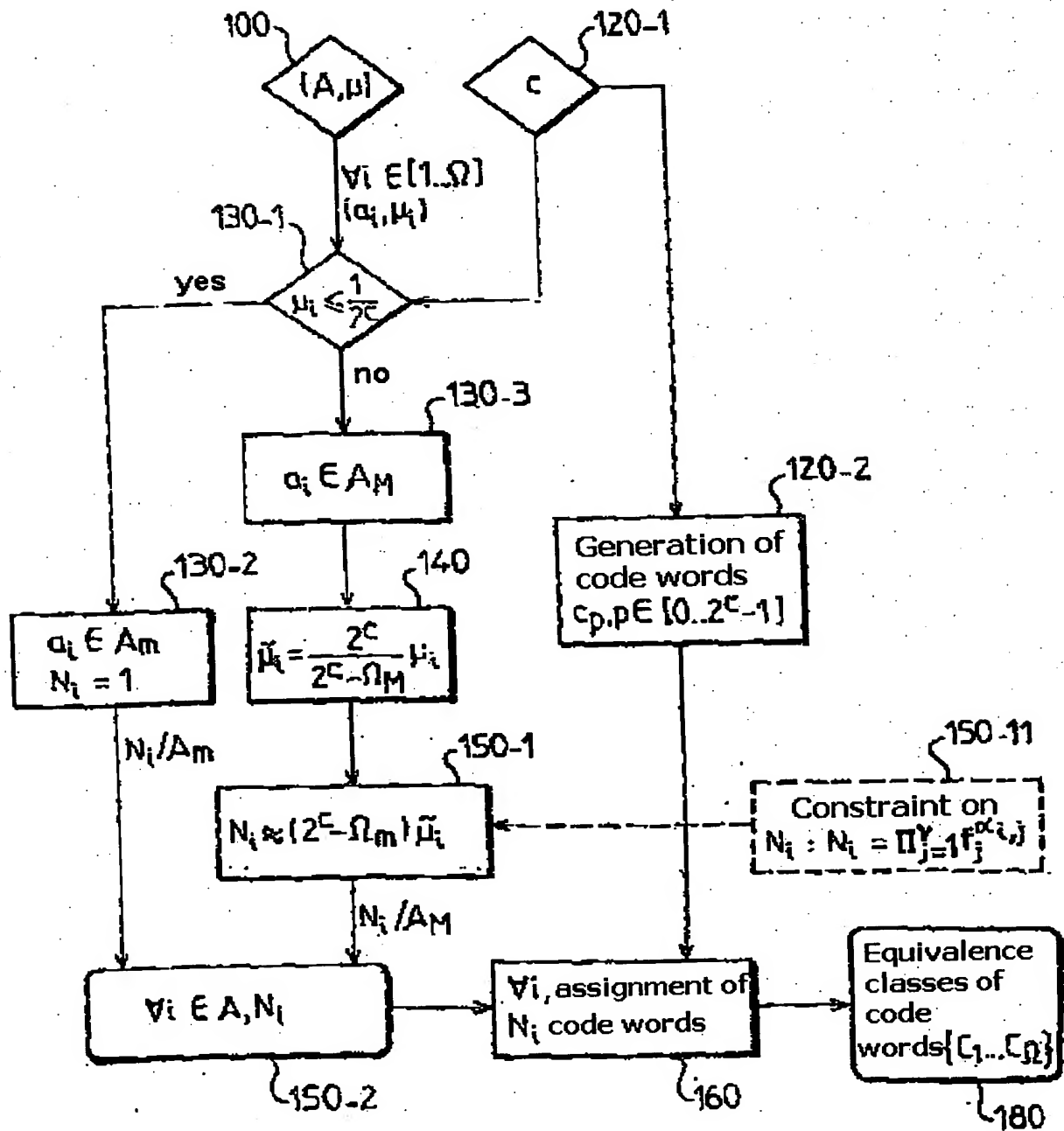


FIG.1

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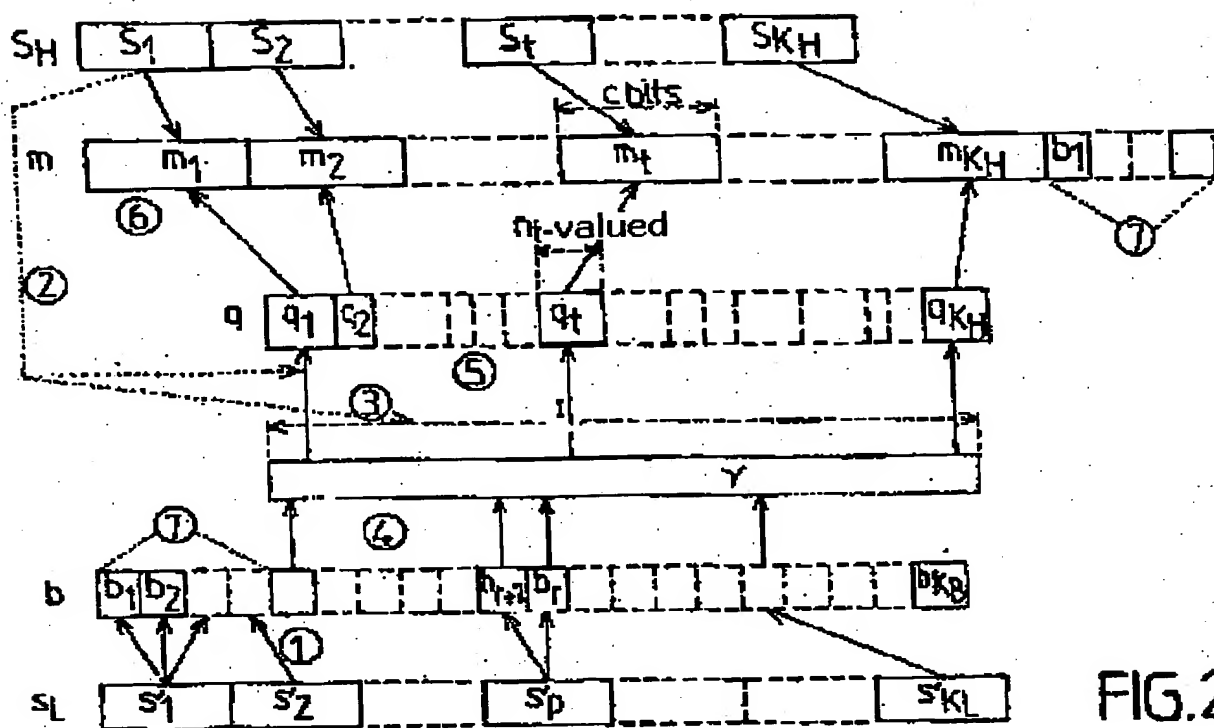


FIG. 2

11-A	12-A	13-A	14-A	15-A	16-A
class $C_i$	Code word $C_{i,q}$	symbol $a_i$	$N_i = \text{card}(C_i)$	probability $\mu_i$	state $q$
$C_1$	0000	a	6	0.43	0
	0001				1
	0010				2
	0011				3
	0100				4
	0101				5
$C_2$	0110	b	5	0.30	0
	0111				1
	1000				2
	1001				3
	1010				4
$C_3$	1011	c	4	0.25	0
	1100				1
	1101				2
	1110				3
$C_4$	1111	d	1	0.02	0

FIG. 2A

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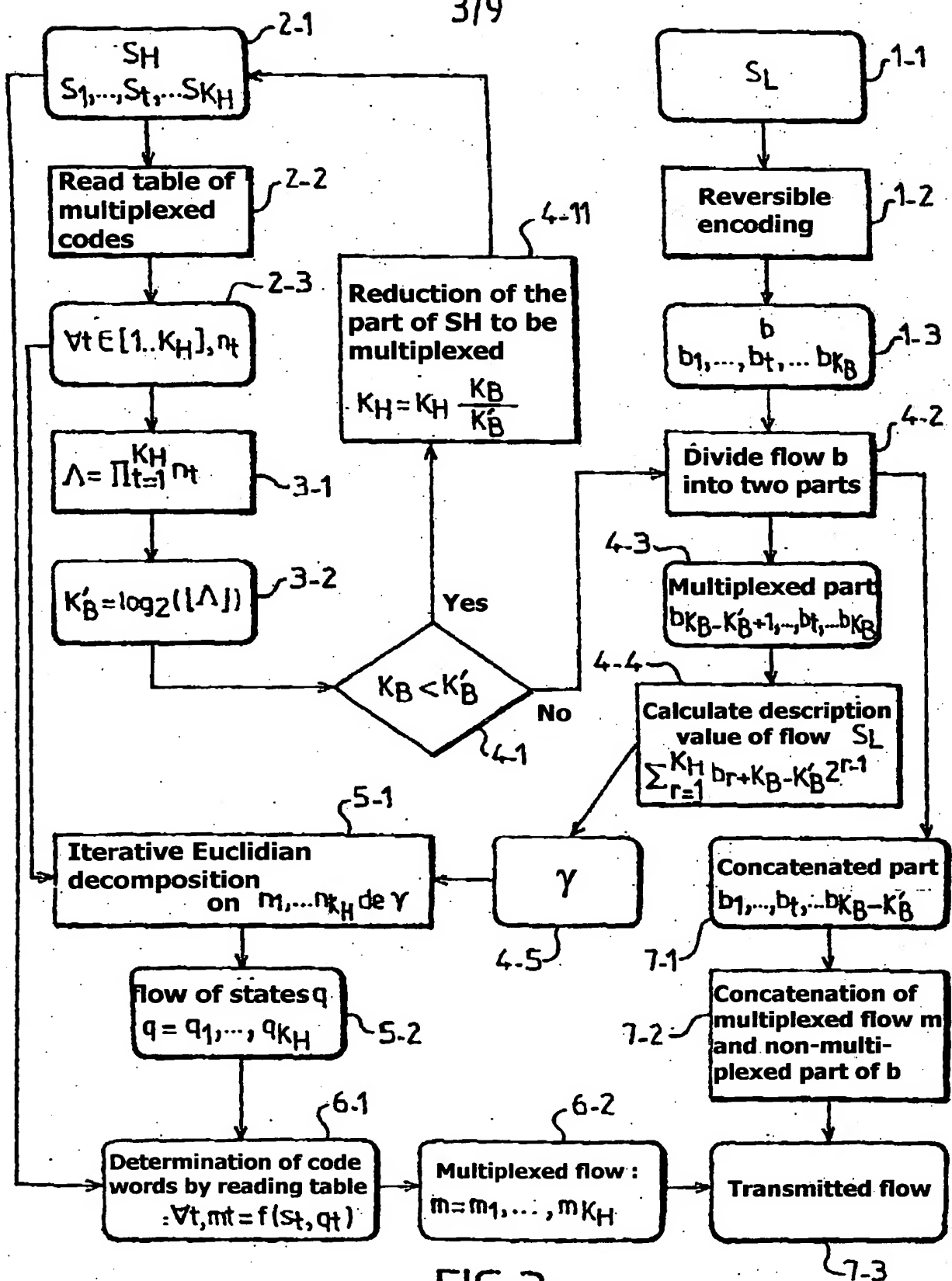
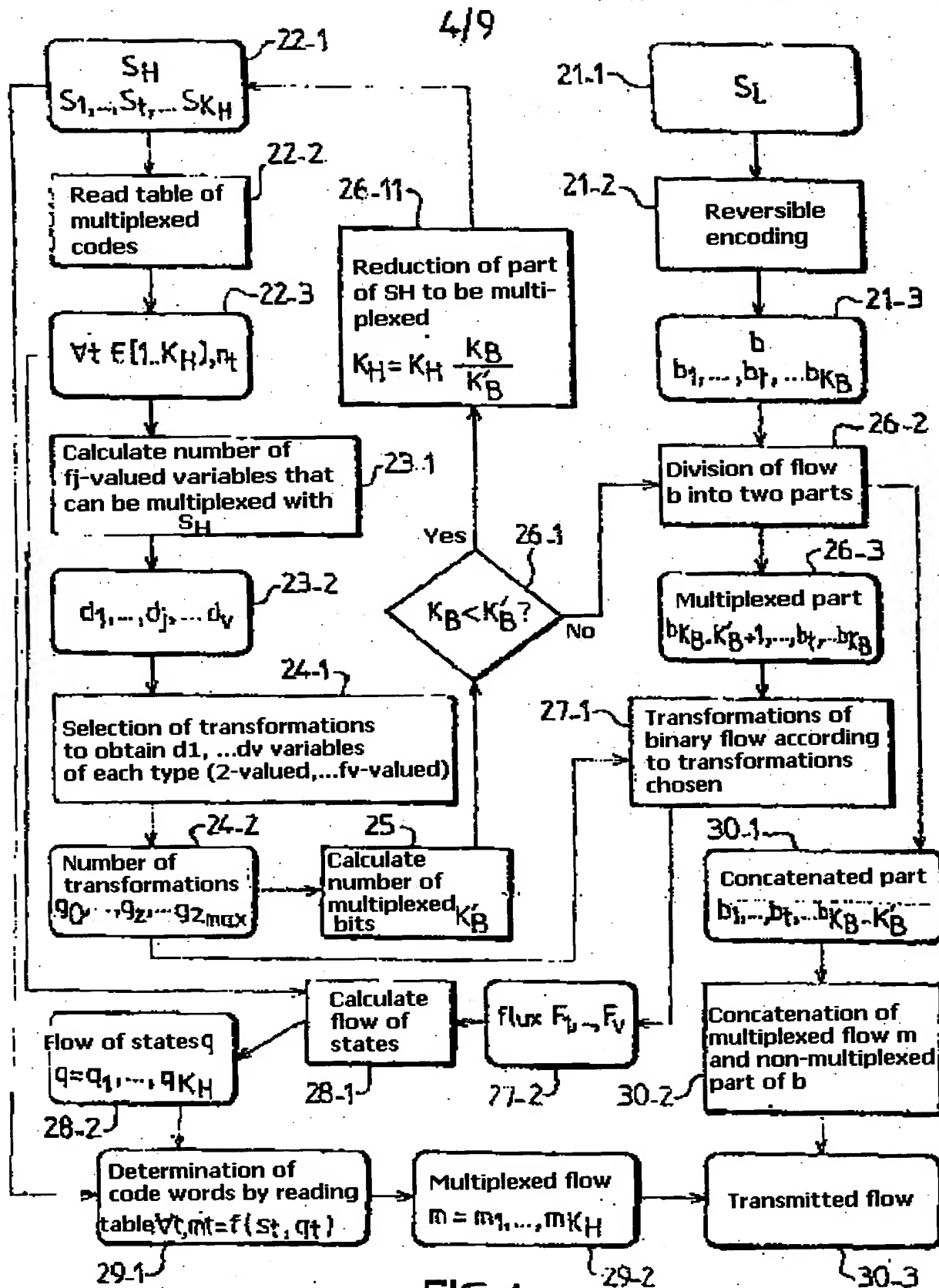


FIG.3



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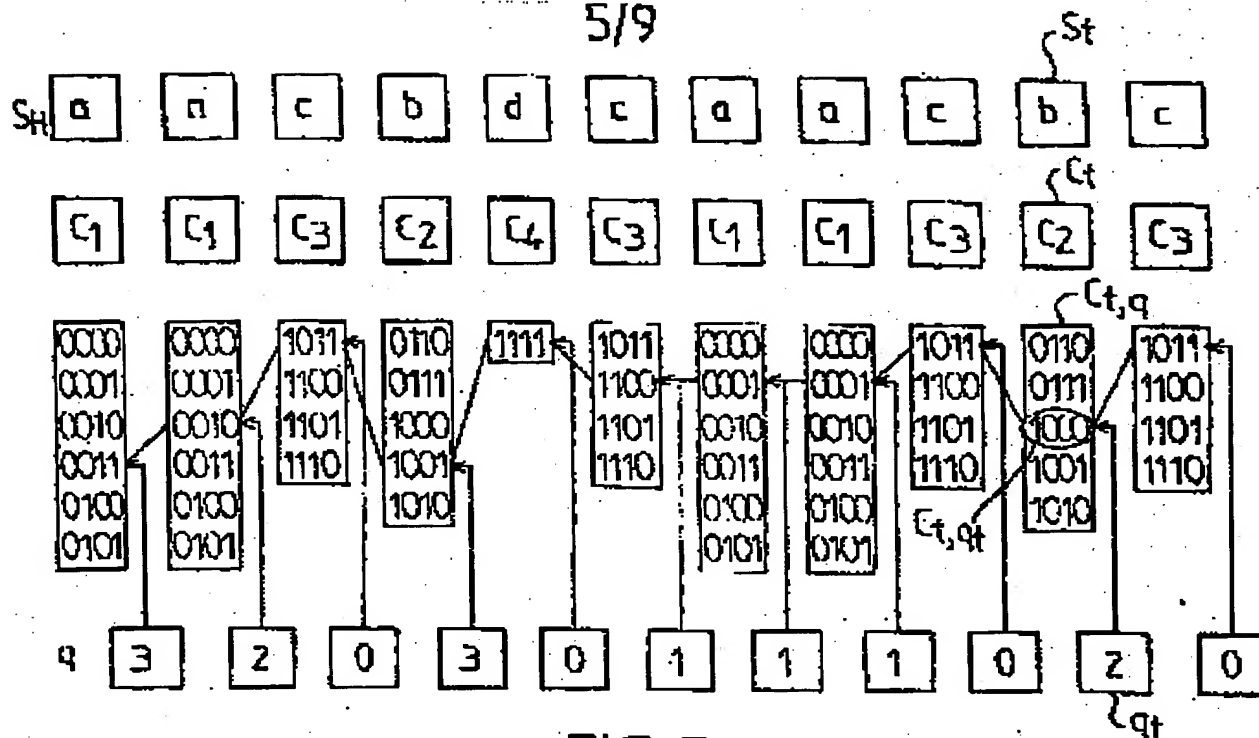


FIG. 5

	31	32	33	34	35
$T_z$ identifier	$UT_z$	$VT_{z,1}$	$VT_{z,2}$	$VT_{z,3}$	$OT_z$
$T_0$	1	1	0	0	00000
$T_1$	15	0	8	1	00001
$T_2$	21	0	3	7	00004
$T_3$	19	0	12	0	00010
$T_4$	25	0	7	6	00011
$T_5$	24	0	2	9	00028
$T_6$	14	0	3	4	00030
$T_7$	18	0	7	3	00034
$T_8$	27	0	1	11	00047
$T_9$	17	0	2	6	00060
$T_{10}$	30	0	0	13	00062
$T_{11}$	20	0	1	8	00080
$T_{12}$	11	0	7	0	00086
$T_{13}$	23	0	0	10	00095
$T_{14}$	6	0	1	2	00381
$T_{15}$	3	0	2	0	00566
$T_{16}$	2	0	0	1	01610
$T_{zmax} = T_{17}$	1	0	1	0	05850

FIG. 6

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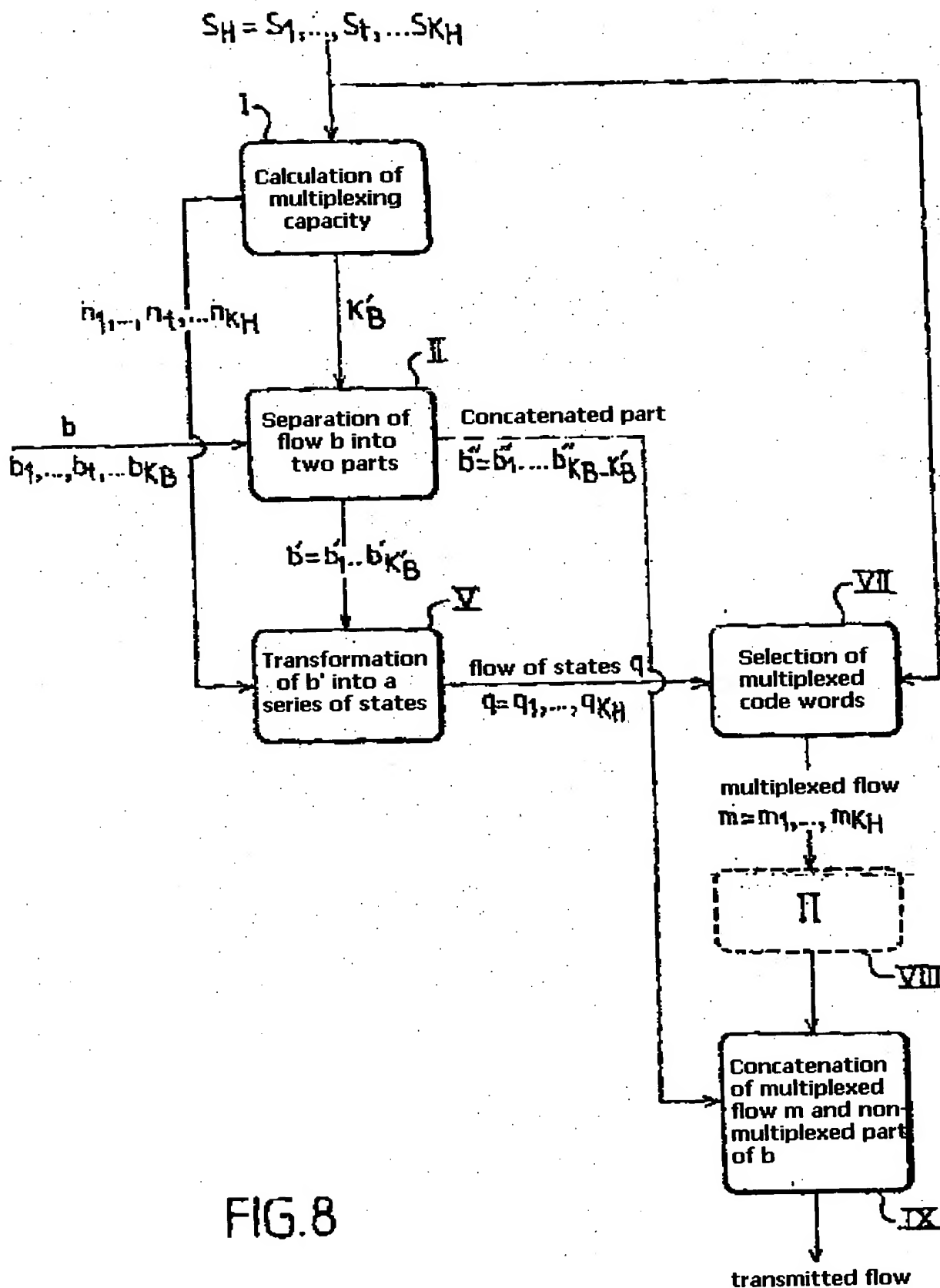


FIG. 8

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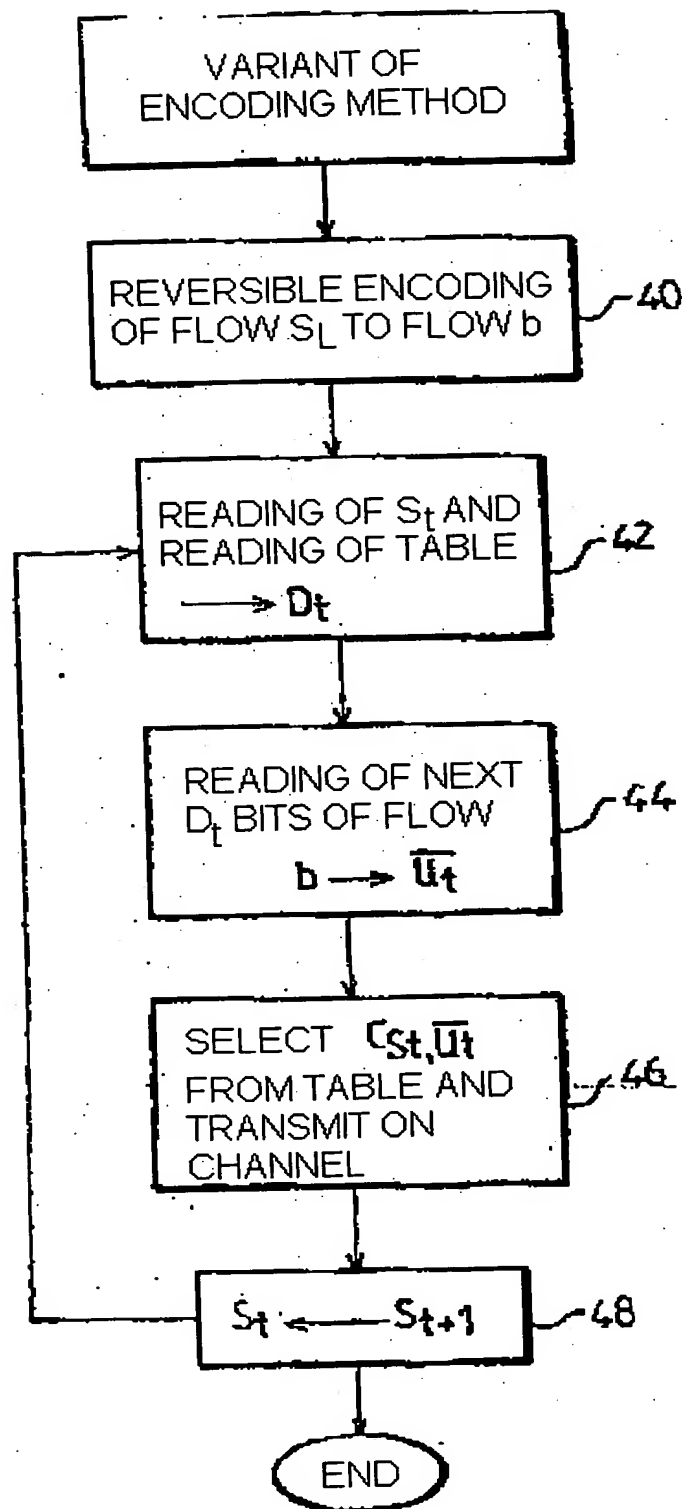


FIG.9

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11-B	12-B	13-B	18-B	14-B	15-B	17-B
class $C_i$	$c_i, \overline{U_i}$	$a_i$	$D_i$	$N_i = 2^{h_i}$	$\mu_i$	$\overline{U_i}$
$C_1$	000 001	$a_1$	1	2	0.30	0 1
$C_2$	010 011 100 101	$a_2$	2	4	0.43	00 01 10 11
$C_3$	110	$a_3$	0	1	0.25	$\emptyset$
$C_4$	111	$a_4$	0	1	0.02	$\emptyset$

FIG. 2B

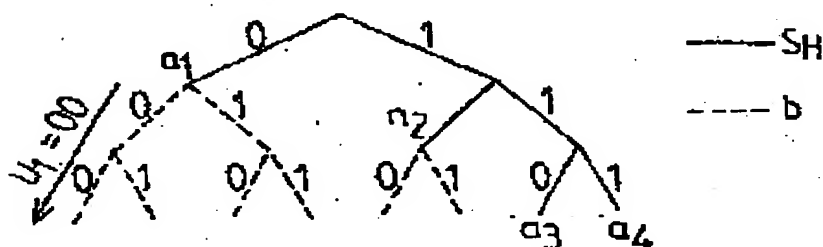


FIG. 7

St	$a_2$	$a_3$	$a_1$	$a_3$	$a_1$	$a_2$	$a_1$	$a_4$	$a_2$	$a_1$
prefix	10	0..	0..	110	0..	10.	0..	111	10.	0..
suffix $\overline{U_i}$	..0	.10	.10	...	.10	.1	.01	...	..0	.10
$m_i$	100	010	010	110	010	101	001	111	100	010

FIG. 10



